

BOBBY JINDAL
GOVERNOR



PEGGY M. HATCH
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

Certified Mail No.

Activity No.: PER20090001
Agency Interest No. 123347

Mr. Troy E. Valenzuela
Director Envir. & Safety
PO Box 4648
Houston, TX 77210-4648

RE: Part 70 Operating Permit Renewal and Minor Modification, Pine Prairie Energy Center
Easton, Evangeline Parish, Louisiana

Dear Mr. Valenzuela:

This is to inform you that the permit renewal and modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the _____ of _____, 2015, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Please be advised that pursuant to provisions of the Environmental Quality Act and the Administrative Procedure Act, the Department may initiate review of a permit during its term. However, before it takes any action to modify, suspend or revoke a permit, the Department shall, in accordance with applicable statutes and regulations, notify the permittee by mail of the facts or operational conduct that warrant the intended action and provide the permittee with the opportunity to demonstrate compliance with all lawful requirements for the retention of the effective permit.

Done this _____ day of _____, 2010.

Permit No.: 0920-00059-V2

Sincerely,

Cheryl Sonnier Nolan
Assistant Secretary

CSN:dcd
c: EPA Region VI

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Pine Prairie Energy Center
Agency Interest No.: 123347
Pine Prairie Energy Center LLC
Easton, Evangeline Parish, Louisiana**

I. Background

Pine Prairie Energy Center is an existing natural gas storage facility which began operation in 2005. The Pine Prairie Energy Center currently operates under Permit No. 0920-00059-V1, issued December 18, 2009.

This is the Part 70 operating permit for the facility.

II. Origin

A permit application and Emission Inventory Questionnaire were submitted by Pine Prairie Energy Center LLC on October 22, 2009, requesting a Part 70 operating permit renewal and minor modification. Additional information dated January 18, 2010, was also received.

III. Description

The Pine Prairie Energy Center will receive sweet natural gas via pipeline. This gas will be routed through filter/separators and compressed for injection into four (4) solution mined salt dome storage caverns with a combined capacity of 48 billion cubic feet. Additionally, the facility will provide for the withdrawal of natural gas from each cavern for delivery to the sales pipeline. A majority of the compression capacity of the facility will be required during the injection phase of the storage cycle, but a limited amount of compression will also be required during the withdrawal phase. Compression will be provided by twelve (12) lean-burn natural gas-fired engines.

During withdrawal, high pressure natural gas will be reduced from cavern pressure to the facility's operating pressure. Following pressure reduction and filtration, the gas will be processed through the dehydration plant consisting of three dehydration units. Wet gas will flow to a triethylene glycol (TEG) contactor, where a counter flowing stream of lean TEG will absorb the entrained water vapor. Dry natural gas will leave the dehydration unit for metering into the sales pipeline. Water-laden TEG will then be sent to a distillation unit consisting of three (3) reboilers for regeneration. Depending on the water vapor content of the withdrawn cavern gas, a portion of the gas may bypass the dehydration system to be blended with dry, dehydrated gas downstream of the TEG contactor. This blending allows the facility to efficiently process gas to meet pipeline quality specifications, reduces still vent emissions to the condenser/oxidizers, and reduces fuel consumption and exhaust emissions from the reboilers. Each dehydration unit will have a maximum gas processing capacity of 250 mmscf/day, for a total plant capacity of 750 mmscf/day.

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With this renewal and modification, Pine Prairie Energy Center proposes to:

- Remove the Diesel Storage Tank (EQT 24), Methanol Loading (FUG 4), and Condensate Flash Emissions (FUG 2) from the permit to reflect as-built conditions at the facility;
- Remove FUG 5, FUG 6, FUG 7, EQT 21, EQT 22, and EQT 23 from the list of permitted sources and place them on the Insignificant Activities list;
- Update the emissions estimates and operating parameters for the BTEX Units Emissions Cap (GRP 1), Reboilers Emissions Cap (GRP 2), and the Line Heaters Emissions Cap (GRP 3) to reflect as-built conditions at the facility. It should be noted that the equipment associated with these emissions caps was constructed to operate at rates that are lower than the rates that were originally permitted;
- Update the emissions and operating parameters of all storage tanks located at this facility to reflect as-built conditions;
- Update Plant Fugitive Emissions (FUG 1) to include methanol emissions that were left out of previous permitting efforts;
- Remove Condensate Flash Emissions (FUG 2) as a separately permitted source and place these emissions under the Condensate Storage Tank (EQT 20);
- Remove the Emergency Generator Diesel Engine (EGE-01) from the Insignificant Activity list and incorporate it into the permit as a permitted source;
- Update stack parameters and emissions estimates to reflect as-built conditions; and
- Update the activities listed in the Insignificant Activities list.

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	0.68	0.95	+ 0.27
SO ₂	1.01	0.95	- 0.06
NO _x	322.61	315.01	- 7.60
CO	203.50	87.03	- 116.47
VOC *	128.89	114.95	- 13.94

LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
Acetaldehyde*	5.85	5.85	-
Acrolein*	3.600	3.600	-
Ammonia	3.52	3.86	- 0.34

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LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

Pollutant	Before	After	Change
Benzene *	0.853	0.460	- 0.393
Ethylbenzene*	0.70	0.29	- 0.41
Formaldehyde*	4.82	4.80	- 0.02
Methanol*	2.64	5.07	+ 2.43
n-Hexane*	2.99	1.48	+ 1.51
Toluene*	0.86	0.52	- 0.34
Xylene*	<u>1.90</u>	<u>0.93</u>	<u>- 0.97</u>
Total	27.733	26.86	- 0.873

*Denotes VOC TAPs that are included in the VOC total for the facility.

Other VOC (TPY): 91.95

IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS), and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD) does not apply.

This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51. However, emissions from the combustion of Group 1 virgin fossil fuels are exempt from the requirements of LAC 33:III.Chapter 51 per LAC 33:III.5105.B.3.a.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit

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condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>; and in the *Ville Platte Gazette*, Ville Platte, on <date>. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to final issuance of the permit.

VII. Effects on Ambient Air

Emissions associated with the proposed modification were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. LDEQ did not require the applicant to model emissions.

VIII. General Condition XVII Activities

Work Activity	Schedule	PM ₁₀	Emission Rates – tons			
			SO ₂	NO _x	CO	VOC
Compressor and Other Blowdown Emissions	12 times per month	-	-	-	-	0.69

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IX. Insignificant Activities

ID No.:	Description	Citation
T-1810	Lube Oil Storage Tank (1,600 gal)	LAC 33:III.501.B.5.A.3
T-1820	Ethylene Glycol Storage Tank (1,600 gal)	LAC 33:III.501.B.5.A.3
T-1870	Lube Oil Storage Tank (1,600 gal)	LAC 33:III.501.B.5.A.3
T-701	TEG Storage Tank (8,460 gal)	LAC 33:III.501.B.5.A.3
T-800	Oily Water Storage Tank (8,460 gal)	LAC 33:III.501.B.5.A.3
T-1840	Used Lube Oil Tank (1,800 gal)	LAC 33:III.501.B.5.A.3
T-1810	Lube Oil Tank (1,600 gal)	LAC 33:III.501.B.5.A.3
T-1900	Used Lube Oil Tank (500 gal)	LAC 33:III.501.B.5.A.3
T-1850	Diesel Storage Tank (8,460 gal)	LAC 33:III.501.B.5.A.3
L-D-780	Diesel Loading Operations	LAC 33:III.501.B.5.D
L-D-790	Diesel Loading Operations	LAC 33:III.501.B.5.D
L-D-940	Diesel Loading Operations	LAC 33:III.501.B.5.D
EGE-02	1877 HP Emergency Generator Natural Gas Engine*	LAC 33:III.501.B.5.D

* These items currently qualify as insignificant activities. Any replacement of these items by new engines that are affected sources under either NSPS IIII or JJJJ will require a permit modification and a removal of the sources from the insignificant activities list.

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X. **Table 1. Applicable Louisiana and Federal Air Quality Requirements**

		LAC 33:III.Chapter																			
ID No.:	Description	5▲	509	9	11	13	15	2103	2104*	2107	2111	2113	2115	2116*	22	29*	51*	53*	56	59*	
UNF1	Entire Facility	1	1	1	1									1							
EQT 1	BTEX-01 - Condenser/Oxidizer for TEG Still Vent Emissions																			1	
EQT 2	BTEX-02 - Condenser/Oxidizer for TEG Still Vent Emissions																			1	
EQT 3	BTEX-03 - Condenser/Oxidizer for TEG Still Vent Emissions																			1	
EQT 4	M-710SV - Dehydration Plant Still Vent																				
EQT 5	M-720SV - Dehydration Plant Still Vent																				
EQT 6	M-730SV - Dehydration Plant Still Vent																				
EQT 7	H-501 - 8.0 MMBTU/hr Line Heater																			3	3
EQT 8	H-502 - 8.0 MMBTU/hr Line Heater																		3	3	
EQT 9	H-503 - 8.0 MMBTU/hr Line Heater																		3		
EQT 10	M-710 - 4.5 MMBTU/hr TEG Reboiler																		3		
EQT 11	M-720 - 4.5 MMBTU/hr TEG Reboiler																		3		
EQT 12	M-730 - 4.5 MMBTU/hr TEG Reboiler																		3		

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		5▲	509	9	11	13	15	2103	2104*	2107	2111	2113	2115	2116*	22	29*	51*	53*	56	59*
EQT 13	G-100 - 7724 HP Caterpillar G16-CM34 Engine				1	1	3													
EQT 14	G-200 - 7724 HP Caterpillar G16-CM34 Engine				1	1	3													
EQT 15	G-300 - 7724 HP Caterpillar G16-CM34 Engine				1	1	3													
EQT 16	G-400 - 7724 HP Caterpillar G16-CM34 Engine				1	1	3													
EQT 17	G-500 - 7805 HP Caterpillar G16-CM34 Engine				1	1	3													
EQT 18	G-600 - 7805 HP Caterpillar G16-CM34 Engine				1	1	3													
EQT 20	T-1860 - 400 BBL Condensate Storage Tank													3						
EQT 25	G-700 - 7805 HP Caterpillar G16-CM34 Engine				1	1	3													
EQT 26	G-800 - 7805 HP Caterpillar G16-CM34 Engine				1	1	3													
EQT 27	G-900 - 4735 HP Caterpillar G3616 Engine				1	1	3													
EQT 28	G-1000 - 4735 HP Caterpillar G3616 Engine				1	1	3													

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		5▲	509	9	11	13	15	2103	2104*	2107	2111	2113	2115	2116*	22	29*	51*	53*	56	59*
EQT 29	G-1100 - 4735 HP Caterpillar G3616 Engine				1	1	3													
EQT 30	G-1200 - 4735 HP Caterpillar G3616 Engine				1	1	3													
EQT 31	T-1600 - 400 BBL MEOH Storage Tank						1													
EQT 32	T-1900A - Aqueous NH3 (17%) Storage Tank																			
EQT 33	T-1900B – Aqueous NH3 (17%) Storage Tank																			
EQT 34	EGE-01 – Emergency Generator Diesel Engine																			
FUG 1	F-01 - Plant Fugitive Emissions																			
FUG 3	L-D-770 - Condensate Loading																			

* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

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KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
-The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.
Blank - The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Pine Prairie Energy Center
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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR		
		A	K	Ka	Kb	Db	Dc	GG	III	JJJ	A	J	V	A	HH	SS	HHH	ZZZZ	64	68		
UNF1	Entire Facility	1																	2			3
EQT 1	BTEX-01 - Condenser/Oxidizer for TEG Still Vent Emissions																					
EQT 2	BTEX-02 - Condenser/Oxidizer for TEG Still Vent Emissions																					
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EQT 10	M-710 - 4.5 MMBTU/hr TEG Reboiler																					
EQT 11	M-720 - 4.5 MMBTU/hr TEG Reboiler																					
EQT 12	M-730 - 4.5 MMBTU/hr TEG Reboiler																					

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		A	K	Ka	Kb	Db	Dc	GG	III	JJJ	A	J	V	A	HH	SS	HHH	ZZZZ	64	68	
EQT 13	G-100 - 7724 HP Caterpillar G16-CM34 Engine									3								3	1		
EQT 14	G-200 - 7724 HP Caterpillar G16-CM34 Engine									3								3	1		
EQT 15	G-300 - 7724 HP Caterpillar G16-CM34 Engine									3								3	1		
EQT 16	G-400 - 7724 HP Caterpillar G16-CM34 Engine									3								3	1		
EQT 17	G-500 - 7805 HP Caterpillar G16-CM34 Engine									1								1	3		
EQT 18	G-600 - 7805 HP Caterpillar G16-CM34 Engine									1								1	3		
EQT 20	T-1860 - 400 BBL Condensate Storage Tank									3											
EQT 25	G-700 - 7805 HP Caterpillar G16-CM34 Engine									1								1	3		
EQT 26	G-800 - 7805 HP Caterpillar G16-CM34 Engine									1								1	3		
EQT 27	G-900 - 4735 HP Caterpillar G3616 Engine									1								1	3		

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		A	K	Ka	Kb	Db	Dc	GG	III	JJJ	A	J	V	A	HH	SS	HHH	ZZZZ	64	68		
EQT 28	G-1000 - 4735 HP Caterpillar G3616 Engine									1								1	3			
EQT 29	G-1100 - 4735 HP Caterpillar G3616 Engine									1								1	3			
EQT 30	G-1200 - 4735 HP Caterpillar G3616 Engine									1								1	3			
EQT 31	T-1600 - 400 BBL MEOH Storage Tank									3												
EQT 32	T-1900A - Aqueous NH3 (17%) Storage Tank																					
EQT 33	T-1900B - Aqueous NH3 (17%) Storage Tank																					
EQT 34	EGE-01 - Emergency Generator Diesel Engine										3								1			
FUG 1	F-01 - Plant Fugitive Emissions																					
FUG 3	L-D-770 - Condensate Loading																					

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KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
-The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
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Blank – The regulations clearly do not apply to this type of emission source.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
Entire Facility	40 CFR 68 – Chemical Accident Provisions	DOES NOT APPLY. The facility is not a Stationary Source because it is regulated by the US Department of Transportation under 49 CFR. [40 CFR 68.3]
EQTs 1-3, 7-18, 25-30	NESHAP HHH - National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities Emission Standards for Sulfur Dioxide [LAC 33:III:Chapter 15] NSPS JJ—Standards of Performance for Stationary Spark Ignition Internal Combustion Engines [40 CFR 60.4230]	DOES NOT APPLY. The facility is not a major source of HAPs. [40 CFR 63.1270(a)] DOES NOT APPLY. Units emit less than 5 tons of SO ₂ per year. [LAC 33:III.1502.A.3] DOES NOT APPLY. Engines were ordered prior to June 12, 2006 and manufactured prior to July 1, 2007. [40 CFR 60.4230(a)(4)(i)]
EQTs 13 – 16	NESHAP ZZZZ—National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines	DOES NOT APPLY. Each engine is an existing spark ignition stationary RICE located at an area source of HAP emissions. [40 CFR 63.6590(b)(3)]
EQT 20	Control of Emission of Organic Compounds Storage of Volatile Organic Compounds [LAC 33:III.2103]	EXEMPT. Storage tank capacity is less than 420,000 gallons, contains crude oil or condensate, and is located in an attainment parish. [LAC 33:III.2103.G]
	NSPS Subpart Kb – Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commences after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Tank capacity is less than 75 cubic meters. [40 CFR 60.110(b)]

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 31	NSPS Subpart Kb – Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commences after July 23, 1984. [40 CFR 60.110b]	DOES NOT APPLY. Tank capacity is less than 75 cubic meters. [40 CFR 60.110(b)(b)]
EQT 17 EQT 18	Compliance Assurance Monitoring [40 CFR 64] Compliance Assurance Monitoring [40 CFR 64]	EXEMPT. Pre-control emissions are less than the major source threshold. [40 CFR 64.2(a)(X3)]
EQTs 25-30	Internal	EXEMPT. Units are subject to 40 CFR 60 Subpart JJJJ, which is an emission standard proposed by the Administrator after November 15, 1990 pursuant to section 111 or 112 of the Clean Air Act. [40 CFR 64.2(b)(X)(i)]
EQT 34	NSPS III—Standards of Performance for Stationary Compression Ignition Internal Combustion Engines [40 CFR 60.4200]	DOES NOT APPLY. Engine was constructed prior to April 1, 2006. [40 CFR 60.4200(a)(2)(X)i]
FUG 003	Volatile Organic Compounds – Loading [LAC 33:III.2(07)]	EXEMPT. Facility is a crude oil condensate loading facility. [LAC 33:III.2(07.F)]

The above table provides explanation for either the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

General Information

AI ID: 123347 Pine Prairie Energy Center LLC - Pine Prairie Energy Center

Activity Number: PER200900003

Permit Number: 0920-00059-V2

Air - Title V Regular Permit Renewal

Also Known As:	ID	Name	User Group	Start Date
	0920-00059	Pine Prairie Energy Center LLC - Pine Prairie Energy Center	CDS Number	08-10-2004
	LAR10D153	LPDES Permit #	LPDES Permit #	09-09-2005
Physical Location:	15 Mi N of Eunice, 1 Mi W of Easton, LA 70000		Main Phone:	8667732552
Mailing Address:	PO Box 4648 Houston, TX 772104648			
Location of Front Gate:	30.749444 Latitude, -92.445833 Longitude.	Coordinate Method: Lat.\Long. - DMS, Coordinate Datum: NAD83		
Related People:		Mailing Address	Phone (Type)	Relationship
	Warren Fusilier	PO Box 4648 Houston, TX 772104648	7136464515 (WP)	Emission Inventory Contact for
	Warren Fusilier	PO Box 4648 Houston, TX 772104648	7136464310 (WF)	Emission Inventory Contact for
	Warren Fusilier	PO Box 4648 Houston, TX 772104648	WDFUSILIER@PAA	Emission Inventory Contact for
	Troy Valenzuela	PO Box 4648 Houston, TX 772104648	tevalenzuela@paaip	Responsible Official for
	Troy Valenzuela	PO Box 4648 Houston, TX 772104648	7136464614 (WP)	Responsible Official for
Related Organizations:		Address	Phone (Type)	Relationship
	Pine Prairie Energy Center LLC	PO Box 4648 Houston, TX 772104648	Owns	
	Pine Prairie Energy Center LLC	PO Box 4648 Houston, TX 772104648	Emission Inventory Billing Party	
	Pine Prairie Energy Center LLC	PO Box 4648 Houston, TX 772104648	Air Billing Party for	
	Pine Prairie Energy Center LLC	PO Box 4648 Houston, TX 772104648	Operates	
NAIC Codes:	48621: Pipeline Transportation of Natural Gas			

Important Information:

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Ms. Tommie Milam, Permit Support Services Division, at (225) 219-3259 or email your changes to facupdate@la.gov.

INVENTORIES
AI ID: 123347 - Pine Prairie Energy Center LLC - Pine Prairie Energy Center
Activity Number: PER20090003
Permit Number: 0920-00059-V2
Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Entire Facility						
EQT 0001	BTEX-01 - Condenser/Oxidizer for TEG Still Vent Emissions	8 MM BTU/hr	7.2 MM BTU/hr	7.2 MM BTU/hr		8760 hr/yr
EQT 0002	BTEX-02 - Condenser/Oxidizer for TEG Still Vent Emissions	8 MM BTU/hr	7.2 MM BTU/hr	7.2 MM BTU/hr		8760 hr/yr
EQT 0003	BTEX-03 - Condenser/Oxidizer for TEG Still Vent Emissions	8 MM BTU/hr	7.2 MM BTU/hr	7.2 MM BTU/hr		8760 hr/yr
EQT 0004	M-710SV - Dehydration Plant Still Vent	250 MM ft ³ /day	250 MM ft ³ /day	250 MM ft ³ /day		8760 hr/yr
EQT 0005	M-720SV - Dehydration Plant Still Vent	250 MM ft ³ /day	250 MM ft ³ /day	250 MM ft ³ /day		8760 hr/yr
EQT 0006	M-730SV - Dehydration Plant Still Vent	250 MM ft ³ /day	10 MM BTU/hr	10 MM BTU/hr		4200 hr/yr
EQT 0007	H-501 - 10.0 MMBTU/hr Line Heater	10 MM BTU/hr	10 MM BTU/hr	10 MM BTU/hr		4200 hr/yr
EQT 0008	H-502 - 10.0 MMBTU/hr Line Heater	10 MM BTU/hr	10 MM BTU/hr	10 MM BTU/hr		4200 hr/yr
EQT 0009	H-503 - 10.0 MMBTU/hr Line Heater	10 MM BTU/hr	10 MM BTU/hr	10 MM BTU/hr		4200 hr/yr
EQT 0010	M-710 - 4.5 MMBTU/hr TEG Reboiler	4.5 MM BTU/hr	4.5 MM BTU/hr	4.5 MM BTU/hr		8760 hr/yr
EQT 0011	M-720 - 4.5 MMBTU/hr TEG Reboiler	4.5 MM BTU/hr	4.5 MM BTU/hr	4.5 MM BTU/hr		8760 hr/yr
EQT 0012	M-730 - 4.5 MMBTU/hr TEG Reboiler	4.5 MM BTU/hr	4.5 MM BTU/hr	4.5 MM BTU/hr		8760 hr/yr
EQT 0013	G-100 - 7724 HP Caterpillar G16-CM34 Engine	7724 horsepower	7724 horsepower	7724 horsepower		8760 hr/yr
EQT 0014	G-200 - 7724 HP Caterpillar G16-CM34 Engine	7724 horsepower	7724 horsepower	7724 horsepower		8760 hr/yr
EQT 0015	G-300 - 7724 HP Caterpillar G16-CM34 Engine	7724 horsepower	7724 horsepower	7724 horsepower		8760 hr/yr
EQT 0016	G-400 - 7724 HP Caterpillar G16-CM34 Engine	7724 horsepower	7724 horsepower	7724 horsepower		8760 hr/yr
EQT 0017	G-500 - 7805 HP Caterpillar G16-CM34 Engine	7805 horsepower	7805 horsepower	7805 horsepower		8760 hr/yr
EQT 0018	G-600 - 7805 HP Caterpillar G16-CM34 Engine	7805 horsepower	7805 horsepower	7805 horsepower		8760 hr/yr
EQT 0020	T-1860 - Process Liquids Storage Tank	3460 gallons	30457 gallons/yr	30457 gallons/yr		8760 hr/yr
EQT 0025	G-700 - 7805 HP Caterpillar G16-CM34 Engine					8760 hr/yr
EQT 0026	G-800 - 7805 HP Caterpillar G16-CM34 Engine					8760 hr/yr
EQT 0027	G-900 - 4735 HP Caterpillar G36/16 Engine					8760 hr/yr
EQT 0028	G-1000 - 4735 HP Caterpillar G38/16 Engine					8760 hr/yr
EQT 0029	G-1100 - 4735 HP Caterpillar G36/16 Engine					8760 hr/yr
EQT 0030	G-1200 - 4735 HP Caterpillar G36/16 Engine					8760 hr/yr
EQT 0031	T-1600 - 400 BBL MEOH Storage Tank	400 bbl	20000 gallons/yr	20000 gallons/yr	methanol	8760 hr/yr
EQT 0032	T-1900A - Aqueous NH3 (17%) Storage Tank	30000 gallons	331644 gallons/yr	331644 gallons/yr		8760 hr/yr
EQT 0033	T-1900B - Aqueous NH3 (17%) Storage Tank	30000 gallons	331644 gallons/yr	331644 gallons/yr		8760 hr/yr
EQT 0034	EGE-01 - Emergency Generator Diesel Engine		374 horsepower			100 hr/yr
FUG 0001	F-01 - Plant Fugitive Emissions					8760 hr/yr
FUG 0003	L-0-770 - Condensate Loading		35280 gallons/yr			9.8 hr/yr

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
Entire Facility							
EQT 0001	BTEX-01 - Condenser/Oxidizer for TEG Still Vent Emissions	56	28475	1		20	1400
EQT 0002	BTEX-02 - Condenser/Oxidizer for TEG Still Vent Emissions	56	28475	1		20	1400

INVENTORIES

AI ID: 123347 - Pine Prairie Energy Center LLC - Pine Prairie Energy Center

Activity Number: PER2009003

Permit Number: 0920-00059-V2

Air - Title V Regular Permit Renewal

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
Entire Facility							
EOT 0003	BTEX-03 - Condenser/Oxidizer for TEG Still Vent Emissions	56	26475	1	20	1400	
EOT 0007	H-501 - 10.0 MMBTU/hr Line Heater	5.75	4339	2	20	850	
EOT 0008	H-502 - 10.0 MMBTU/hr Line Heater	5.75	4339	2	20	850	
EOT 0009	H-503 - 10.0 MMBTU/hr Line Heater	5.75	4339	2	20	850	
EOT 0010	M-710 - 4.5 MMBTU/hr TEG Reboiler	3	536	2	20	850	
EOT 0011	M-720 - 4.5 MMBTU/hr TEG Reboiler	3	536	2	20	850	
EOT 0012	M-730 - 4.5 MMBTU/hr TEG Reboiler	3	536	2	20	850	
EOT 0013	G-100 - 7724 HP Caterpillar G16-CM34 Engine	28	21000	3	40	660	
EOT 0014	G-200 - 7724 HP Caterpillar G16-CM34 Engine	28	21000	3	40	660	
EOT 0015	G-300 - 7724 HP Caterpillar G16-CM34 Engine	28	21000	3	40	660	
EOT 0016	G-400 - 7724 HP Caterpillar G16-CM34 Engine	28	21000	3	40	660	
EOT 0017	G-500 - 7805 HP Caterpillar G16-CM34 Engine	48	36515	3	40	713	
EOT 0018	G-600 - 7805 HP Caterpillar G16-CM34 Engine	48	36515	3	40	713	
EOT 0020	T-1860 - Process Liquids Storage Tank	.01	.01	.5	10	68	
EOT 0025	G-700 - 7805 HP Caterpillar G16-CM34 Engine	48	36515	4	40	713	
EOT 0026	G-800 - 7805 HP Caterpillar G16-CM34 Engine	48	36515	4	40	713	
EOT 0027	G-900 - 4735 HP Caterpillar G3616 Engine	48	36515	4	40	713	
EOT 0028	G-1000 - 4735 HP Caterpillar G3616 Engine	48	36515	4	40	713	
EOT 0029	G-1100 - 4735 HP Caterpillar G3616 Engine	48	36515	4	40	713	
EOT 0030	G-1200 - 4735 HP Caterpillar G3616 Engine	48	36515	4	40	713	
EOT 0031	T-1600 - 400 BBL MEOH Storage Tank	-.5	-.5	.01	.5	20	68
EOT 0032	T-1900A - Aqueous NH3 (17%) Storage Tank	.5	.01	.5	24	68	
EOT 0033	T-1900B - Aqueous NH3 (17%) Storage Tank	.5	.01	.5	24	68	
EOT 0034	EGE-01 - Emergency Generator Diesel Engine	140	2000	.55	8	840	

Relationships:

ID	Description	Relationship	ID	Description
EOT 0001	BTEX-01 - Condenser/Oxidizer for TEG Still Vent Emissions	Controls emissions from	EOT 0004	M-710SV - Dehydration Plant Still Vent
EOT 0002	BTEX-02 - Condenser/Oxidizer for TEG Still Vent Emissions	Controls emissions from	EOT 0005	M-720SV - Dehydration Plant Still Vent
EOT 0003	BTEX-03 - Condenser/Oxidizer for TEG Still Vent Emissions	Controls emissions from	EOT 0006	M-730SV - Dehydration Plant Still Vent

INVENTORIES

AI ID: 123347 - Pine Prairie Energy Center LLC - Pine Prairie Energy Center
 Activity Number: PER200900003
 Permit Number: 0820-000059-V2
 Air - Title V Regular Permit Renewal

Subject Item Groups:

ID	Group Type	Group Description
CRG 0001	Common Requirements Group	CAM - Compliance Assurance Monitoring Requirements
GRP 0001	Equipment Group	BUEC - BTEX Units Emissions Cap
GRP 0002	Equipment Group	REC - Rebottlers Emissions Cap
GRP 0003	Equipment Group	LHEC - Line Heaters Emissions Cap
GRP 0004	Equipment Group	CEEC - Compressor Engines Emissions Cap
UNF 0001	Unit or Facility Wide	UNF1 - Entire Facility

Group Membership:

ID	Description	Member of Groups
EQT 0001	BTEX-01 - Condenser/Oxidizer for TEG Still Vent Emissions	GRP0000000001
EQT 0002	BTEX-02 - Condenser/Oxidizer for TEG Still Vent Emissions	GRP0000000001
EQT 0003	BTEX-03 - Condenser/Oxidizer for TEG Still Vent Emissions	GRP0000000001
EQT 0007	H-501 - 10.0 MMBTU/hr Line Heater	GRP0000000003
EQT 0008	H-502 - 10.0 MMBTU/hr Line Heater	GRP0000000003
EQT 0009	H-503 - 10.0 MMBTU/hr Line Heater	GRP0000000003
EQT 0010	M-710 - 4.5 MMBTU/hr TEG Rebboiler	GRP0000000002
EQT 0011	M-720 - 4.5 MMBTU/hr TEG Rebboiler	GRP0000000002
EQT 0012	M-730 - 4.5 MMBTU/hr TEG Rebboiler	GRP0000000002
EQT 0013	G-100 - 7724 HP Caterpillar G16-CM34 Engine	CRG0000000004
EQT 0014	G-200 - 7724 HP Caterpillar G16-CM34 Engine	CRG0000000004
EQT 0015	G-300 - 7724 HP Caterpillar G16-CM34 Engine	CRG0000000004
EQT 0016	G-400 - 7724 HP Caterpillar G16-CM34 Engine	CRG0000000004
EQT 0017	G-500 - 7805 HP Caterpillar G16-CM34 Engine	CRG0000000004
EQT 0018	G-600 - 7805 HP Caterpillar G16-CM34 Engine	CRG0000000004
EQT 0025	G-700 - 7805 HP Caterpillar G16-CM34 Engine	CRG0000000004
EQT 0026	G-800 - 7805 HP Caterpillar G16-CM34 Engine	CRG0000000004
EQT 0027	G-900 - 4735 HP Caterpillar G36/16 Engine	CRG0000000004
EQT 0028	G-1000 - 4735 HP Caterpillar G36/16 Engine	CRG0000000004
EQT 0029	G-1100 - 4735 HP Caterpillar G36/16 Engine	CRG0000000004
EQT 0030	G-1200 - 4735 HP Caterpillar G36/16 Engine	CRG0000000004

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multplier	Units Of Measure
1450	1450 Recip. Nat Gas Comp (20,000 to 50,000 H.P.)	827.48	100 hp

SIC Codes:

4922	Natural gas transmission	AI 123347
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INVENTORIES

AID: 123347 - Pine Prairie Energy Center LLC - Pine Prairie Energy Center

Activity Number: PER2009003

Permit Number: 0920-00059-V2

Air - Title V Regular Permit Renewal

SIC Codes:

4922 Natural gas transmission

UNF 001

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 123347 - Pine Prairie Energy Center LLC - Pine Prairie Energy Center
 Activity Number: PER20090003
 Permit Number: 0920-00059-V2
 Air - Title V Regular Permit Renewal

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
Entire Facility															
EQT 0034 EGE-01	2.15	2.58	0.11	3.87	4.64	0.18	0.11	0.13	0.01	0.77	0.92	0.04	0.06	0.07	<0.01
FUG 0001 F-01															
FUG 0003 L-0.770														119.39	119.39
GRP 0001 BUEC	0.32	2.70	0.38	3.21	0.03	0.24	0.002	0.02	0.02	0.27	0.27	0.02	0.27	0.27	5.72
GRP 0002 REC	0.16	1.35	0.19	1.61	0.01	0.12	<.01	0.01	0.01	0.04	0.04	0.01	0.04	0.04	0.18
GRP 0003 LHEC	2.47	5.19	2.94	6.18	0.22	0.47	0.02	0.02	0.04	0.16	0.16	0.11	0.16	0.16	0.34
GRP 0004 CEEC	27.28	77.68	106.72	303.82	0.04	0.11	0.29	0.84	35.03	99.72	99.72	0.84	35.03	99.72	99.72

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 123347 - Pine Prairie Energy Center LLC - Pine Prairie Energy Center

Activity Number: PER20090003

Permit Number: 0920-00059-V2

Air - Title V Regular Permit Renewal

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
Entire Facility															
EOT 0001 BTEX-01	0.47	0.56	0.04	<0.01	<0.01	0.40									
EOT 0002 BTEX-02	0.47	0.56	0.04	<0.01	<0.01	0.40									
EOT 0003 BTEX-03	0.47	0.56	0.04	<0.01	<0.01	0.40									
EOT 0007 H-501	0.99	1.18	0.09	0.01	0.01	0.06									
EOT 0008 H-502	0.99	1.18	0.09	0.01	0.01	0.06									
EOT 0009 H-503	0.99	1.18	0.09	0.01	0.01	0.06									
EOT 0010 M-710	0.24	0.28	0.02	<0.01	<0.01	0.25									
EOT 0011 M-720	0.24	0.28	0.02	<0.01	<0.01	0.25									
EOT 0012 M-730	0.24	0.28	0.02	<0.01	<0.01	0.25									
EOT 0013 G-100	2.71	15.31	0.004	0.03	0.03	3.47									
EOT 0014 G-200	2.71	15.31	0.004	0.03	0.03	3.47									
EOT 0015 G-300	2.71	15.31	0.004	0.03	0.03	3.47									
EOT 0016 G-400	2.71	15.31	0.004	0.03	0.03	3.47									
EOT 0017 G-500	2.97	14.44	0.004	0.03	0.03	3.09									
EOT 0018 G-600	2.97	14.44	0.004	0.03	0.03	3.09									
EOT 0020 T-1000							1.37								
EOT 0025 G-700	2.97	14.44	0.004	0.03	0.03	3.09									
EOT 0026 G-800	2.97	14.44	0.004	0.03	0.03	3.09									
EOT 0027 G-900	2.50	8.76	<0.01	0.02	0.02	3.94									
EOT 0028 G-1000	2.50	8.76	<0.01	0.02	0.02	3.94									
EOT 0029 G-1100	2.50	8.76	<0.01	0.02	0.02	3.94									
EOT 0030 G-1200	2.50	8.76	<0.01	0.02	0.02	3.94									
EOT 0031 T-1500							0.05								

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 123347 - Pine Prairie Energy Center LLC - Pine Prairie Energy Center

Activity Number: PER20090003

Permit Number: 0920-00059-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0001 BTEX-01	Benzene		0.02	
	Ethyl benzene		0.05	
	Formaldehyde		<0.01	
	Toluene		0.04	
	Xylene (mixed isomers)		0.14	
	n-Hexane		0.02	
EQT 0002 BTEX-02	Benzene		0.02	
	Ethyl benzene		0.05	
	Formaldehyde		<0.01	
	Toluene		0.04	
	Xylene (mixed isomers)		0.14	
	n-Hexane		0.02	
EQT 0003 BTEX-03	Benzene		0.02	
	Ethyl benzene		0.05	
	Formaldehyde		<0.01	
	Toluene		0.04	
	Xylene (mixed isomers)		0.14	
	n-Hexane		0.02	
EQT 0007 H-501	Formaldehyde		0.001	
	n-Hexane		0.02	
EQT 0008 H-502	Formaldehyde		0.001	
	n-Hexane		0.02	
EQT 0009 H-503	Formaldehyde		0.001	
	n-Hexane		0.02	
EQT 0010 M-710	Benzene		<0.01	
	Ethyl benzene		<0.01	
	Formaldehyde		<0.01	
	Toluene		<0.01	
	Xylene (mixed isomers)		<0.01	
	n-Hexane		0.01	
EOT 0011 M-720	Benzene		<0.01	
	Ethyl benzene		<0.01	
	Formaldehyde		<0.01	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 123347 - Pine Prairie Energy Center LLC - Pine Prairie Energy Center

Activity Number: PER20090003

Permit Number: 0920-00059-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0011 M-720	Toluene		<0.01	
	Xylene (mixed isomers)		<0.01	
	n-Hexane		0.01	
EQT 0012 M-730	Benzene		<0.01	
	Ethyl benzene		<0.01	
	Formaldehyde		<0.01	
	Toluene		<0.01	
	Xylene (mixed isomers)		<0.01	
	n-Hexane		0.01	
EQT 0013 G-100	Acetaldehyde		0.23	
	Acrolein		0.140	
	Benzene		0.010	
	Formaldehyde		0.12	
	Methanol		0.07	
	Toluene		0.01	
	Xylene (mixed isomers)		0.005	
	n-Hexane		0.03	
EQT 0014 G-200	Acetaldehyde		0.23	
	Acrolein		0.140	
	Benzene		0.010	
	Formaldehyde		0.12	
	Methanol		0.07	
	Toluene		0.01	
	Xylene (mixed isomers)		0.005	
	n-Hexane		0.03	
EQT 0015 G-300	Acetaldehyde		0.23	
	Acrolein		0.140	
	Benzene		0.010	
	Formaldehyde		0.12	
	Methanol		0.07	
	Toluene		0.01	
	Xylene (mixed isomers)		0.005	
	n-Hexane		0.03	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 123347 - Pine Prairie Energy Center LLC - Pine Prairie Energy Center

Activity Number: PER20090003

Permit Number: 0920-00059-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EOT 0016 G-400	Acetaldehyde		0.23	
	Acrolein		0.140	
	Benzene		0.010	
	Formaldehyde		0.12	
	Methanol		0.07	
	Toluene		0.01	
	Xylene (mixed isomers)		0.005	
	n-Hexane		0.03	
EQT 0017 G-500	Acetaldehyde		0.23	
	Acrolein		0.140	
	Ammonia		0.590	
	Benzene		0.010	
	Formaldehyde		0.12	
	Methanol		0.07	
	Toluene		0.01	
	Xylene (mixed isomers)		0.01	
EQT 0018 G-600	Acetaldehyde		0.23	
	Acrolein		0.140	
	Ammonia		0.59	
	Benzene		0.010	
	Formaldehyde		0.12	
	Methanol		0.07	
	Toluene		0.01	
	Xylene (mixed isomers)		0.01	
EQT 0020 T-1860	n-Hexane	0.005		0.02
EQT 0025 G-700	Acetaldehyde		0.23	
	Acrolein		0.140	
	Benzene		0.010	
	Formaldehyde		0.12	
	Methanol		0.07	
	Toluene		0.01	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 123347 - Pine Prairie Energy Center LLC - Pine Prairie Energy Center
 Activity Number: PER20090003
 Permit Number: 0920-00059-V2
 Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0025 G-700	Xylene (mixed isomers)		0.01	
	n-Hexane		0.03	
EQT 0026 G-800	Acetaldehyde		0.23	
	Acrolein		0.140	
	Benzene		0.010	
	Formaldehyde		0.12	
	Methanol		0.07	
	Toluene		0.01	
	Xylene (mixed isomers)		0.01	
	n-Hexane		0.03	
EQT 0027 G-900	Acetaldehyde		0.16	
	Acrolein		0.100	
	Benzene		0.010	
	Formaldehyde		0.26	
	Methanol		0.05	
	Toluene		0.01	
	Xylene (mixed isomers)		0.004	
	n-Hexane		0.02	
EQT 0028 G-1000	Acetaldehyde		0.16	
	Acrolein		0.100	
	Benzene		0.010	
	Formaldehyde		0.26	
	Methanol		0.05	
	Toluene		0.01	
	Xylene (mixed isomers)		0.004	
	n-Hexane		0.02	
EQT 0029 G-1100	Acetaldehyde		0.16	
	Acrolein		0.100	
	Benzene		0.010	
	Formaldehyde		0.26	
	Methanol		0.05	
	Toluene		0.01	
	Xylene (mixed isomers)		0.004	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 123347 - Pine Prairie Energy Center LLC - Pine Prairie Energy Center

Activity Number: PER20090003

Permit Number: 0920-00059-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0029 G-1100	n-Hexane		0.02	
EQT 0030 G-1200	Acetaldehyde		0.16	
	Acrolein		0.100	
	Benzene		0.010	
	Formaldehyde		0.26	
	Methanol		0.05	
	Toluene		0.01	
	Xylene (mixed isomers)		0.004	
	n-Hexane		0.02	
EQT 0031 T-1600	Methanol	0.05	0.05	0.20
EQT 0032 T-1800A	Ammonia	0.12	0.12	0.54
EQT 0033 T-1900B	Ammonia	0.12	0.12	0.54
FUG 0001 F-01	Methanol	0.71		3.12
	n-Hexane	<0.08		0.35
FUG 0003 L-0-770	n-Hexane	6.99	6.99	0.03
GRP 0001 BUEC	Benzene	0.02		0.14
	Ethyl benzene	0.03		0.28
	Formaldehyde	<0.01		<0.01
	Toluene	0.03		0.22
	Xylene (mixed isomers)	0.09		0.78
	n-Hexane	0.01		0.11
GRP 0002 REC	Benzene	<0.01		0.01
	Ethyl benzene	<0.01		0.01
	Formaldehyde	<0.01		0.01
	Toluene	<0.01		0.01
	Xylene (mixed isomers)	0.002		0.02
	n-Hexane	0.01		0.08
GRP 0003 LHEC	Formaldehyde	0.002		0.005
	n-Hexane	0.02		0.11
GRP 0004 CEEC	Acetaldehyde	2.06		5.85
	Acrolein	1.260		3.600
	Ammonia	0.98		2.78
	Benzene	0.110		0.310

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 123347 - Pine Prairie Energy Center LLC - Pine Prairie Energy Center

Activity Number: PER20090003

Permit Number: 0920-00059-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
GRP 0004 CEEC	Formaldehyde	1.68		4.77
	Methanol	0.61		1.75
	Toluene	0.10		0.29
	Xylene (mixed isomers)	0.05		0.13
	n-Hexane	0.27		0.78
UNF 0001 UNF1	Acetaldehyde			5.85
	Acrolein			3.600
	Ammonia			3.86
	Benzene			0.460
	Ethyl benzene			0.29
	Formaldehyde			4.80
	Methanol			5.07
	Toluene			0.52
	Xylene (mixed isomers)			0.93
	n-Hexane			1.48

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

SPECIFIC REQUIREMENTS

AI ID: 123347 - Pine Prairie Energy Center LLC - Pine Prairie Energy Center
Activity Number: PER20090003
Permit Number: 0920-00059-V2
Air - Title V Regular Permit Renewal

CRG 0001 CAM - Compliance Assurance Monitoring Requirements

Group Member: EQT 0013EQT 0014EQT 0015EQT 0016

- 1 [40 CFR 64.3(b)(3)] Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation using procedures that take into account manufacturer's specifications. [40 CFR 64.3(b)(3)]
- 2 [40 CFR 64.4(c)] Comply with the submitted implementation plan and schedule for installing, testing and performing any other appropriate activities prior to use of the monitoring, if any, of the approved monitoring in this permit requires installation, testing, or other necessary activities prior to use of the monitoring for purposes of 40 CFR 64. Implement monitoring as expeditiously as practicable after approval of the monitoring pursuant to 40 CFR 64.6, but in no case shall the period for completing installation and beginning operation of the monitoring exceed 180 days after approval of the permit. [40 CFR 64.4(c)]
- 3 [40 CFR 64.6(c)(1)] Temperature monitored by temperature monitoring device daily. [40 CFR 64.6(c)(1)]
- 4 [40 CFR 64.6(c)(2)] Which Months: All Year Statistical Basis: None specified
- 5 [40 CFR 64.6(c)(2)] Submit Notification: Submit to DEQ within 5 working days upon the establishment or reestablishment of any exceedance or excursion level, for purposes of responding to and reporting exceedances or excursions under 40 CFR 64.7 and 64.8. [40 CFR 64.6(c)(2)]
- 6 [40 CFR 64.6(c)(2)] An excursion or exceedance is defined as a temperature measurement that is outside the range defined in the performance test required by 40 CFR 64.6(d). [40 CFR 64.6(c)(2)]
- 7 [40 CFR 64.6(c)(4)] Temperature recordkeeping by electronic or hard copy daily. [40 CFR 64.6(c)(4)]
- 8 [40 CFR 64.6(d)] Schedule for installation, testing or final verification of operational status: Permittee shall conduct a performance test no later than 180 days after the issuance of Permit Number 0920-00059-V3. This performance test shall determine the minimum exhaust gas temperature necessary to assure compliance with the carbon monoxide limitations of this permit for these sources. The temperature of the exhaust gas shall be measured at a point after the exhaust gas has exited the combustion area of the engine but before it has entered the catalytic converter. Within 45 days of obtaining the relevant test results, the permittee shall submit an administrative amendment to incorporate the operating parameters determined in the performance test. [40 CFR 64.6(d)]
- 9 [40 CFR 64.7(a)] Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
- 10 [40 CFR 64.7(b)] Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]
- 11 [40 CFR 64.7(c)] Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]
- 12 [40 CFR 64.7(d)(1)] Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]

SPECIFIC REQUIREMENTS

AJ ID: 123347 - Pine Prairie Energy Center LLC - Pine Prairie Energy Center
 Activity Number: PER20090003
 Permit Number: 0920-00059-V2
 Air - Title V Regular Permit Renewal

CRG 0001 CAM - Compliance Assurance Monitoring Requirements

- 12 [40 CFR 64.7(e)] Submit written notification: Due to the Office of Environmental Compliance within 72 hours upon identifying a failure to achieve compliance with the carbon monoxide emission limitation for which, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]
- 13 [40 CFR 64.9(a)] Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]
- 14 [40 CFR 64.9(b)(1)] Monitoring data recordkeeping by electronic or hard copy at the approved frequency. Maintain these records for a period of at least five years.
- 15 [40 CFR 64.9(b)(1)] Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years.
- 16 [40 CFR 64.9(b)(1)] Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]

EQT 0001 BTEX-01 - Condenser/Oxidizer for TEG Still Vent Emissions

- 17 [LAC 33.III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year
 Statistical Basis: None Specified
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year
 Statistical Basis: Six-minute average
 VOC, Total \geq 85% reduction. Demonstrate percent reduction using the methods found in LAC 33.III.2116.D.
 Which Months: All Year
 Statistical Basis: None Specified
 Determine compliance with LAC 33.III.2116.B using the methods in LAC 33.III.2116.D 1-5, as appropriate.
 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of the information specified in LAC 33.III.2116.F.1 and 2.
- 19 [LAC 33.III.2116.B.2]
 20 [LAC 33.III.2116.D]
 21 [LAC 33.III.2116.F]

EQT 0002 BTEX-02 - Condenser/Oxidizer for TEG Still Vent Emissions

SPECIFIC REQUIREMENTS

AI ID: 123347 - Pine Prairie Energy Center LLC - Pine Prairie Energy Center
 Activity Number: PER20090003
 Permit Number: 0920-00059-V2
 Air - Title V Regular Permit Renewal

EQT 0002 BTEX-02 - Condenser/Oxidizer for TEG Still Vent Emissions

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: None specified
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average VOC, Total >= 85 % reduction. Demonstrate percent reduction using the methods found in LAC 33:III.2116.D.

Which Months: All Year Statistical Basis: None specified

Determine compliance with LAC 33:III.2116.B using the methods in LAC 33:III.2116.D.1-5, as appropriate.

Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of the information specified in LAC 33:III.2116.F.1 and 2.

EQT 0003 BTEX-03 - Condenser/Oxidizer for TEG Still Vent Emissions

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: None specified
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average VOC, Total >= 85 % reduction. Demonstrate percent reduction using the methods found in LAC 33:III.2116.D.

Which Months: All Year Statistical Basis: None specified

Determine compliance with LAC 33:III.2116.B using the methods in LAC 33:III.2116.D.1-5, as appropriate.

Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of the information specified in LAC 33:III.2116.F.1 and 2.

EQT 0007 H-501 - 10.0 MMBTU/hr Line Heater

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 123347 - Pine Prairie Energy Center LLC - Pine Prairie Energy Center

Activity Number: PER20090003

Permit Number: 0920-000059-V2

Air - Title V Regular Permit Renewal

EQT 0008 H-502 - 10.0 MMBTU/hr Line Heater

34 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified

EQT 0009 H-503 - 10.0 MMBTU/hr Line Heater

36 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified

EQT 0010 M-710 - 4.5 MMBTU/hr TEG Reboller

38 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified

EQT 0011 M-720 - 4.5 MMBTU/hr TEG Reboller

39 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified

EQT 0012 M-730 - 4.5 MMBTU/hr TEG Reboller

SPECIFIC REQUIREMENTS

AI ID: 123347 - Pine Prairie Energy Center LLC - Pine Prairie Energy Center
Activity Number: PER20090003
Permit Number: 0920-00059-V2
Air - Title V Regular Permit Renewal

EQT 0012 M-730 - 4.5 MMBTU/hr TEG Reboiler

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

EQT 0013 G-100 - 7724 HP Caterpillar G16-CM34 Engine

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: Six-minute average

Equipment/operational data recordkeeping by electronic or hard copy annually. Recorded parameters are NOx, CO and O2 concentrations in the stack gas obtained during annual testing.

Conduct a performance/emissions test: Due within five years, plus or minus 6 months, of when the previous performance test was performed, or within 180 days after the issuance of a permit renewal, whichever comes later. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.

Stack gas concentration: Oxygen monitored by portable analyzer annually (twelve months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of O2 in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.

Which Months: All Year Statistical Basis: None specified

Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing.

Stack gas concentration: Carbon monoxide monitored by portable analyzer annually (twelve months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of CO in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.

Which Months: All Year Statistical Basis: None specified

42 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

43 [LAC 33:III.1313.C] Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

44 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

45 [LAC 33:III.1311.C] Which Months: All Year Statistical Basis: None specified

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: Six-minute average

Equipment/operational data recordkeeping by electronic or hard copy annually. Recorded parameters are NOx, CO and O2 concentrations in the stack gas obtained during annual testing.

Conduct a performance/emissions test: Due within five years, plus or minus 6 months, of when the previous performance test was performed, or within 180 days after the issuance of a permit renewal, whichever comes later. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.

Stack gas concentration: Oxygen monitored by portable analyzer annually (twelve months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of O2 in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.

Which Months: All Year Statistical Basis: None specified

Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing.

Stack gas concentration: Carbon monoxide monitored by portable analyzer annually (twelve months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of CO in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.

Which Months: All Year Statistical Basis: None specified

46 [LAC 33:III.507.H.1.a]

47 [LAC 33:III.507.H.1.a]

48 [LAC 33:III.507.H.1.a]

49 [LAC 33:III.507.H.1.a]

50 [LAC 33:III.507.H.1.a]

SPECIFIC REQUIREMENTS

AJ ID: 123347 - Pine Prairie Energy Center LLC - Pine Prairie Energy Center

Activity Number: PER20090003

Permit Number: 0920-00059-Y2

Air - Title V Regular Permit Renewal

EQT 0013 G-100 - 7724 HP Caterpillar G16-CM34 Engine

51 [LAC 33:III.507.H.1.a]

Stack gas concentration: Nitrogen oxides monitored by portable analyzer annually (twelve months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of NOx in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.

52 [LAC 33:III.507.H.1.a]

Which Months: All Year Statistical Basis: None specified
Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services.

EQT 0014 G-200 - 7724 HP Caterpillar G16-CM34 Engine

53 [LAC 33:III.1)01.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

54 [LAC 33:III.1)11.C]

Which Months: All Year Statistical Basis: None specified

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

55 [LAC 33:III.507.H.1.a]

Which Months: All Year Statistical Basis: Six-minute average

Stack gas concentration: Nitrogen oxides monitored by portable analyzer annually (twelve months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of NOx in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.

56 [LAC 33:III.507.H.1.a]

Which Months: All Year Statistical Basis: None specified
Stack gas concentration: Oxygen monitored by portable analyzer annually (twelve months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of O₂ in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.

57 [LAC 33:III.507.H.1.a]

Which Months: All Year Statistical Basis: None specified
Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services.

58 [LAC 33:III.507.H.1.a]

Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing.

59 [LAC 33:III.507.H.1.a]

Conduct a performance/emissions test: Due within five years, plus or minus 6 months, of when the previous performance test was performed, or within 180 days after the issuance of a permit renewal, whichever comes later. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.

SPECIFIC REQUIREMENTS

AI ID: 123347 - Pine Prairie Energy Center LLC - Pine Prairie Energy Center

Activity Number: PER20090003

Permit Number: 0920-0005B-V2

Air - Title V Regular Permit Renewal

EQT 0014 G-200 - 7724 HP Caterpillar G16-CM34 Engine

Equipment/operational data recordkeeping by electronic or hard copy annually. Recorded parameters are NOx, CO and O2 concentrations in the stack gas obtained during annual testing.

Stack gas concentration: Carbon monoxide monitored by portable analyzer annually (twelve months after the stack test or previous annual test plus or minus 30 days). Maintain concentrations of CO in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.

Which Months: All Year Statistical Basis: None specified

EQT 0015 G-300 - 7724 HP Caterpillar G16-CM34 Engine

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: Six-minute average

Stack gas concentration: Carbon monoxide monitored by portable analyzer annually (twelve months after the stack test or previous annual test plus or minus 30 days). Maintain concentrations of CO in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.

Which Months: All Year Statistical Basis: None specified

Stack gas concentration: Nitrogen oxides monitored by portable analyzer annually (twelve months after the stack test or previous annual test plus or minus 30 days). Maintain concentrations of NOx in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.

Which Months: All Year Statistical Basis: None specified

Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing.

Stack gas concentration: Oxygen monitored by portable analyzer annually (twelve months after the stack test or previous annual test plus or minus 30 days). Maintain concentrations of O2 in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.

Which Months: All Year Statistical Basis: None specified

Equipment/operational data recordkeeping by electronic or hard copy annually. Recorded parameters are NOx, CO and O2 concentrations in the stack gas obtained during annual testing.

Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services.

SPECIFIC REQUIREMENTS

AI ID: 123347 - Pine Prairie Energy Center LLC - Pine Prairie Energy Center

Activity Number: PER20090003

Permit Number: 0920-00059-V2

Air - Title V Regular Permit Renewal

EQT 0015 G-300 - 7724 HP Caterpillar G16-CM34 Engine

70 [LAC 33:III.507.H.1.a]

Conduct a performance/emissions test: Due within five years, plus or minus 6 months, of when the previous performance test was performed, or within 180 days after the issuance of a permit renewal, whichever comes later. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.

EQT 0016 G-400 - 7724 HP Caterpillar G16-CM34 Engine

71 [LAC 33:III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: Six-minute average

73 [LAC 33:III.507.H.1.a]

Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing.
 Conduct a performance/emissions test: Due within five years, plus or minus 6 months, of when the previous performance test was performed, or within 180 days after the issuance of a permit renewal, whichever comes later. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.

75 [LAC 33:III.507.H.1.a]

Stack gas concentration: Nitrogen oxides monitored by portable analyzer annually (twelve months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of NOx in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.
 Which Months: All Year Statistical Basis: None specified
 Equipment/operational data recordkeeping by electronic or hard copy annually. Recorded parameters are NOx, CO and O2 concentrations in the stack gas obtained during annual testing.

76 [LAC 33:III.507.H.1.a]

SPECIFIC REQUIREMENTS

AI ID: 123347 - Pine Prairie Energy Center LLC - Pine Prairie Energy Center

Activity Number: PER20090003

Permit Number: 0920-00059-V2

Air - Title V Regular Permit Renewal

EQT 0016 G-400 - 7724 HP Caterpillar G16-CM34 Engine

77 [LAC 33:III.507.H.1.a]

Stack gas concentration: Oxygen monitored by portable analyzer annually (twelve months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of O₂ in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.

Which Months: All Year Statistical Basis: None specified

Stack gas concentration: Carbon monoxide monitored by portable analyzer annually (twelve months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of CO in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.

Which Months: All Year Statistical Basis: None specified

Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services.

EQT 0017 G-500 - 7805 HP Caterpillar G16-CM34 Engine

80 [40 CFR 60.4234]

Operate and maintain stationary SI ICE to achieve the emission standards as required in 40 CFR 60.4233 over the entire life of the engine. Subpart JJJJ.

Permittee may operate using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations. Keep records of such use. If propane is used for more than 100 hours per year and the engine is not certified to the emission standards when using propane, conduct a performance test to demonstrate compliance with the emission standards of 40 CFR 60.4233. Subpart JJJJ. [40 CFR 60.4243(e)]

When required by 40 CFR 60 Subpart JJJJ to conduct one or more performance tests, conduct performance tests by following the procedures in 40 CFR 60.4244(a) through (g). Subpart JJJJ.

Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep records of the information in 40 CFR 60.4245(a)(1) through (a)(4). Subpart JJJJ. [40 CFR 60.4245(a)]

Submit performance test results: Due within 60 days after each test conducted according to 40 CFR 60.4244 has been completed. Subpart JJJJ. [40 CFR 60.4245(d)]

Meet the requirements of 40 CFR 60 Subpart IIII for compression ignition engines or 40 CFR 60 Subpart JJJJ for spark ignition engines. Subpart ZZZZ. [40 CFR 63.6590(c)]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: Six-minute average

Olfactory and visual checks for Ammonia shall be made once per day within the operating area. No later than one hour following detection of a leak, permittee shall locate and isolate the leak and use a leak collection/containment system to control the leak until repair or replacement can be made. Within 24 hours of detection of a leak, plant personnel shall commence repair or replacement of the leaking component as appropriate.

SPECIFIC REQUIREMENTS

AI ID: 123347 - Pine Prairie Energy Center LLC - Pine Prairie Energy Center
Activity Number: PER20090003
Permit Number: 0920-00059-V2
Air - Title V Regular Permit Renewal

EQT 0018 G-600 - 7805 HP Caterpillar G16-CM34 Engine

- 89 [40 CFR 60.4234] Operate and maintain stationary SI ICE to achieve the emission standards as required in 40 CFR 60.4233 over the entire life of the engine.
Subpart JJJJ.
- Permittee may operate using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations. Keep records of such use. If propane is used for more than 100 hours per year and the engine is not certified to the emission standards when using propane, conduct a performance test to demonstrate compliance with the emission standards of 40 CFR 60.4233. Subpart JJJJ. [40 CFR 60.423(e)]
- 90 [40 CFR 60.4243(c)] When required by 40 CFR 60 Subpart JJJJ to conduct one or more performance tests, conduct performance tests by following the procedures in 40 CFR 60.4244(a) through (g). Subpart JJJJ.
- Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep records of the information in 40 CFR 60.4245(a)(1) through (a)(4). Subpart JJJJ. [40 CFR 60.4245(a)]
- 91 [40 CFR 60.4244] Submit performance test results: Due within 60 days after each test conducted according to 40 CFR 60.4244 has been completed. Subpart JJJJ.
- 92 [40 CFR 60.4245(a)] [40 CFR 60.4245(d)] Meet the requirements of 40 CFR 60 Subpart IIII for compression ignition engines or 40 CFR 60 Subpart JJJJ for spark ignition engines.
Subpart ZZZZ. [40 CFR 63.6590(c)]
- 93 [40 CFR 60.4245(d)] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 94 [40 CFR 63.6590(c)] Which Months: All Year Statistical Basis: None specified
Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 95 [LAC 33:III.1.101.B] Which Months: All Year Statistical Basis: Six-minute average
Olfactory and visual checks for Ammonia shall be made once per day within the operating area. No later than one hour following detection of a leak, permittee shall locate and isolate the leak and use a leak collection/containment system to control the leak until repair or replacement can be made. Within 24 hours of detection of a leak, plant personnel shall commence repair or replacement of the leaking component as appropriate.
- 96 [LAC 33:III.1.11.C]
- 97 [LAC 33:III.507.H.1.a]
- 98 [40 CFR 60.4234] Operate and maintain stationary SI ICE to achieve the emission standards as required in 40 CFR 60.4233 over the entire life of the engine.
Subpart JJJJ.
- Permittee may operate using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations. Keep records of such use. If propane is used for more than 100 hours per year and the engine is not certified to the emission standards when using propane, conduct a performance test to demonstrate compliance with the emission standards of 40 CFR 60.4233. Subpart JJJJ. [40 CFR 60.423(e)]
- Air-to-fuel ratio controller: Maintain and operate appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times. Subpart JJJJ. [40 CFR 60.4243(g)]
- 99 [40 CFR 60.4243(e)] When required by 40 CFR 60 Subpart JJJJ to conduct one or more performance tests, conduct performance tests by following the procedures in 40 CFR 60.4244(a) through (g). Subpart JJJJ.
- 100 [40 CFR 60.4243(g)]
- 101 [40 CFR 60.4244]

SPECIFIC REQUIREMENTS

AJ ID: 123347 - Pine Prairie Energy Center LLC - Pine Prairie Energy Center
 Activity Number: PER20090003
 Permit Number: 0920-00058-V2
 Air - Title V Regular Permit Renewal

EQT 0025 G-700 - 7805 HP Caterpillar G16-CM34 Engine

- 102 [40 CFR 60.4245(a)] Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep records of the information in 40 CFR 60.4245(a)(1) through (a)(4). Subpart JJJ. [40 CFR 60.4245(a)]
 Submit performance test results: Due within 60 days after each test conducted according to 40 CFR 60.4244 has been completed. Subpart JJJ. [40 CFR 60.4245(d)]
 Meet the requirements of 40 CFR 60 Subpart IIII for compression ignition engines or 40 CFR 60 Subpart JJJ for spark ignition engines. Subpart ZZZZ. [40 CFR 63.6590(c)]
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). Which Months: All Year Statistical Basis: None specified
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). Which Months: All Year Statistical Basis: Six-minute average

EQT 0026 G-800 - 7805 HP Caterpillar G16-CM34 Engine

- 107 [40 CFR 60.4243] Operate and maintain stationary SIDI CE to achieve the emission standards as required in 40 CFR 60.4233 over the entire life of the engine. Subpart JJJ.
 Permittee may operate using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations. Keep records of such use. If propane is used for more than 100 hours per year and the engine is not certified to the emission standards when using propane, conduct a performance test to demonstrate compliance with the emission standards of 40 CFR 60.4233. Subpart JJJ. [40 CFR 60.4243(e)]
 Air-to-fuel ratio controller: Maintain and operate appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times. Subpart JJJ. [40 CFR 60.4243(g)] When required by 40 CFR 60 Subpart IIII to conduct one or more performance tests, conduct performance tests by following the procedures in 40 CFR 60.4244(a) through (g). Subpart JJJ.
 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep records of the information in 40 CFR 60.4245(a)(1) through (a)(4). Subpart JJJ. [40 CFR 60.4245(a)]
 Submit performance test results: Due within 60 days after each test conducted according to 40 CFR 60.4244 has been completed. Subpart JJJ. [40 CFR 60.4245(d)]
 Meet the requirements of 40 CFR 60 Subpart IIII for compression ignition engines or 40 CFR 60 Subpart JJJ for spark ignition engines. Subpart ZZZZ. [40 CFR 63.6590(c)]
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 123347 - Pine Prairie Energy Center LLC - Pine Prairie Energy Center
 Activity Number: PER20090003
 Permit Number: 0920-00059-Y2
 Air - Title V Regular Permit Renewal

EQT 0026 G-800 - 7805 HP Caterpillar G16-CM34 Engine

115 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: Six-minute average

EQT 0027 G-900 - 4735 HP Caterpillar G3616 Engine

116 [40 CFR 60.4234] Operate and maintain stationary SI ICE to achieve the emission standards as required in 40 CFR 60.4233 over the entire life of the engine. Subpart JJJJ.
 Permittee may operate using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations. Keep records of such use. If propane is used for more than 100 hours per year and the engine is not certified to the emission standards when using propane, conduct a performance test to demonstrate compliance with the emission standards of 40 CFR 60.4233. Subpart JJJJ. [40 CFR 60.4243(e)]
 Air-to-fuel ratio controller: Maintain and operate appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times. Subpart JJJJ. [40 CFR 60.4243(g)]
 When required by 40 CFR 60 Subpart JJJJ to conduct one or more performance tests, conduct performance tests by following the procedures in 40 CFR 60.4244(a) through (g). Subpart JJJJ.
 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep records of the information in 40 CFR 60.4245(a)(1) through (a)(4). Subpart JJJJ. [40 CFR 60.4245(a)]
 Submit performance test results: Due within 60 days after each test conducted according to 40 CFR 60.4244 has been completed. Subpart JJJJ. [40 CFR 60.4245(d)]
 Meet the requirements of 40 CFR 60 Subpart III for compression ignition engines or 40 CFR 60 Subpart JJJJ for spark ignition engines. Subpart ZZZZ. [40 CFR 63.6590(c)]
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: Six-minute average

EQT 0028 G-1000 - 4735 HP Caterpillar G3616 Engine

125 [40 CFR 60.4234] Operate and maintain stationary SI ICE to achieve the emission standards as required in 40 CFR 60.4233 over the entire life of the engine. Subpart JJJJ.

SPECIFIC REQUIREMENTS

AI ID: 123347 - Pine Prairie Energy Center LLC - Pine Prairie Energy Center
 Activity Number: PER20090003
 Permit Number: 0920-00059-V2
 Air - Title V Regular Permit Renewal

EQT 0028 G-1000 - 4735 HP Caterpillar G3616 Engine

126 [40 CFR 60.4243(e)]

Permittee may operate using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations. Keep records of such use. If propane is used for more than 100 hours per year and the engine is not certified to the emission standards when using propane, conduct a performance test to demonstrate compliance with the emission standards of 40 CFR 60.4233. Subpart JJJ. [40 CFR 60.4243(e)]

127 [40 CFR 60.4243(g)]

Air-to-fuel ratio controller: Maintain and operate appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times. Subpart JJJ. [40 CFR 60.4243(g)] When required by 40 CFR 60 Subpart JJJ to conduct one or more performance tests, conduct performance tests by following the procedures in 40 CFR 60.4244(e) through (g). Subpart JJJ.

128 [40 CFR 60.4244]

Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep records of the information in 40 CFR 60.4245(a)(1) through (a)(4). Subpart JJJ. [40 CFR 60.4245(a)]

129 [40 CFR 60.4245(d)]

Submit performance test results: Due within 60 days after each test conducted according to 40 CFR 60.4244 has been completed. Subpart JJJ. [40 CFR 60.4245(d)]

130 [40 CFR 60.4245(d)]

Meet the requirements of 40 CFR 60 Subpart IIII for compression ignition engines or 40 CFR 60 Subpart JJJ for spark ignition engines. Subpart ZZZZZ. [40 CFR 63.6590(c)] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). Which Months: All Year Statistical Basis: None specified

131 [40 CFR 63.6590(c)]

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: Six-minute average

EQT 0029 G-1100 - 4735 HP Caterpillar G3616 Engine

134 [40 CFR 60.4234]

Operate and maintain stationary SI ICE to achieve the emission standards as required in 40 CFR 60.4233 over the entire life of the engine. Subpart JJJ.

135 [40 CFR 60.4243(e)]

Permittee may operate using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations. Keep records of such use. If propane is used for more than 100 hours per year and the engine is not certified to the emission standards when using propane, conduct a performance test to demonstrate compliance with the emission standards of 40 CFR 60.4233. Subpart JJJ. [40 CFR 60.4243(e)]

136 [40 CFR 60.4243(g)]

Air-to-fuel ratio controller: Maintain and operate appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times. Subpart JJJ. [40 CFR 60.4243(g)] When required by 40 CFR 60 Subpart JJJ to conduct one or more performance tests, conduct performance tests by following the procedures in 40 CFR 60.4244(a) through (g). Subpart JJJ.

137 [40 CFR 60.4244]

Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep records of the information in 40 CFR 60.4245(a)(1) through (a)(4). Subpart JJJ. [40 CFR 60.4245(a)]

SPECIFIC REQUIREMENTS

AI ID: 123347 - Pine Prairie Energy Center LLC - Pine Prairie Energy Center
Activity Number: PER20090003
Permit Number: 0920-00059-V2
Alt - Title V Regular Permit Renewal

EQT 0029 G-1100 - 4735 HP Caterpillar G3616 Engine

- 139 [40 CFR 60.4245(d)] Submit performance test results: Due within 60 days after each test conducted according to 40 CFR 60.4244 has been completed. Subpart JJJJ.
 [40 CFR 60.4245(d)]
 Meet the requirements of 40 CFR 60 Subpart IIII for compression ignition engines or 40 CFR 60 Subpart JJJJ for spark ignition engines.
 Subpart ZZZZ. [40 CFR 63.6590(c)]
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: Six-minute average

EQT 0030 G-1200 - 4735 HP Caterpillar G3616 Engine

- 143 [40 CFR 60.4234] Operate and maintain stationary SI ICE to achieve the emission standards as required in 40 CFR 60.4233 over the entire life of the engine.
 Subpart JJJJ.
 Permittee may operate using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations. Keep records of such use. If propane is used for more than 100 hours per year and the engine is not certified to the emission standards when using propane, conduct a performance test to demonstrate compliance with the emission standards of 40 CFR 60.4233. Subpart JJJJ. [40 CFR 60.4243(e)]
 Air-to-fuel ratio controller: Maintain and operate appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times. Subpart JJJJ. [40 CFR 60.4243(g)]
 When required by 40 CFR 60 Subpart JJJJ to conduct one or more performance tests, conduct performance tests by following the procedures in 40 CFR 60.4244(a) through (g). Subpart JJJJ.
 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep records of the information in 40 CFR 60.4245(a)(1) through (a)(4). Subpart JJJJ. [40 CFR 60.4245(a)]
 Submit performance test results: Due within 60 days after each test conducted according to 40 CFR 60.4244 has been completed. Subpart JJJJ.
 [40 CFR 60.4245(d)]
 Meet the requirements of 40 CFR 60 Subpart IIII for compression ignition engines or 40 CFR 60 Subpart JJJJ for spark ignition engines.
 Subpart ZZZZ. [40 CFR 63.6590(c)]
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: Six-minute average

SPECIFIC REQUIREMENTS

AI ID: 123347 - Pine Prairie Energy Center LLC - Pine Prairie Energy Center
Activity Number: PER20090003
Permit Number: 0920-00059-V2
Air - Title V Regular Permit Renewal

EQT 0031 T-1600 - 400 BBL MEOH Storage Tank

Equip with a submerged fill pipe.

Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-c.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

EQT 0034 EGE-01 - Emergency Generator Diesel Engine

Comply with the operating limitations in Table 2b of 40 CFR 63 Subpart ZZZZ that apply to emergency compression ignition engines. [40 CFR 63.6603(a)]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

Opacity <= 20 percent, except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

FUG 0001 F-01 - Plant Fugitive Emissions

Upon commencement of operation of the twelfth (12th) compressor engine, permittee shall obtain a gas sample of the gas(es) that flows through the valves, flanges, connectors, pumps, PSVs, compressor seals, and sample connections. Permittee shall send the sample(s) to an accredited laboratory for a gas analysis and shall utilize the results of the gas analysis to revise the emissions estimates for this source. If this revision causes the facility to be a major source of Hazardous Air Pollutants, permittee shall apply for a permit modification to incorporate these emissions. Otherwise, permittee shall apply for an administrative amendment to incorporate these emissions. For the purposes of compliance with this specific condition, it is only necessary to collect one sample of each gas type (i.e., wet gas, dry gas, etc.).

GRP 0001 BUEC - BTEX Units Emissions Cap

Group Members: EQT 0001 EQT 0002 EQT 0003

Wet Gas Processing Rate <= 177938 MM scf/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the combined wet gas processing rate for sources EQT1, EQT2, and EQT3 exceeds the maximum listed in this specific condition for any twelve consecutive month period.

Which Months: All Year Statistical Basis: Annual maximum

Submit report: Due annually, by the 31st of March. Report the combined wet gas processing rate for sources EQT1, EQT2, and EQT3 for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.

Wet Gas Processing Rate monitored by technically sound method continuously.

Which Months: All Year Statistical Basis: Annual maximum

TCPOR0147

SPECIFIC REQUIREMENTS

AI ID: 123347 - Pine Prairie Energy Center LLC - Pine Prairie Energy Center

Activity Number: PER20090003

Permit Number: 0920-00059-V2

Air - Title V Regular Permit Renewal

GRP 0001 BUEC - BTEX Units Emissions Cap

- 162 [LAC 33:III.507.H.1.a] Wet Gas Processing Rate recordkeeping by electronic or hard copy monthly. Keep records of the combined wet gas processing rate for sources EQT1, EQT2, and EQT3 each month, as well as the combined wet gas processing rate for sources EQT1, EQT2, and EQT3 for the last twelve months. Make records available for inspection by DEQ personnel.

GRP 0002 REC - Rebottlers Emissions Cap

- Group Members: EQT 0010EQT 0011EQT 0012
- 163 [LAC 33:III.501.C.6] Wet Gas Processing Rate <= 177938 MM scf/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the combined wet gas processing rate for sources EQT10, EQT11, and EQT12 exceeds the maximum listed in this specific condition for any twelve consecutive month period.
- Which Months: All Year Statistical Basis: Annual maximum
- 164 [LAC 33:III.507.H.1.a] Wet Gas Processing Rate recordkeeping by electronic or hard copy monthly. Keep records of the combined wet gas processing rate for sources EQT10, EQT11, and EQT12 each month, as well as the combined wet gas processing rate for sources EQT10, EQT11, and EQT12 for the last twelve months. Make records available for inspection by DEQ personnel.
- Which Months: All Year Statistical Basis: Annual maximum
- 165 [LAC 33:III.507.H.1.a] Wet Gas Processing Rate monitored by technically sound method continuously.
- Which Months: All Year Statistical Basis: Annual maximum
- 166 [LAC 33:III.507.H.1.a] Submit report: Due annually, by the 31st of March. Report the combined wet gas processing rate for sources EQT10, EQT11, and EQT12 for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.

GRP 0003 LHEC - Line Heaters Emissions Cap

- Group Members: EQT 0007EQT 0008EQT 0009
- 167 [LAC 33:III.501.C.6] Operating time <= 4200 hr/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if combined operating time for sources EQT7, EQT8, and EQT9 exceeds the maximum listed in this specific condition for any twelve consecutive month period.
- Which Months: All Year Statistical Basis: Annual maximum
- 168 [LAC 33:III.507.H.1.a] Submit report: Due annually, by the 31st of March. Report the combined operating time for sources EQT7, EQT8, and EQT9 for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.
- Operating time recordkeeping by electronic or hard copy monthly. Keep records of the combined operating time for sources EQT7, EQT8, and EQT9 each month, as well as the combined operating time for sources EQT7, EQT8, and EQT9 for the last twelve months. Make records available for inspection by DEQ personnel.
- Operating time monitored by hour/time monitor continuously.
- Which Months: All Year Statistical Basis: Annual maximum

GRP 0004 CEEC - Compressor Engines Emissions Cap

- Group Members: EQT 0013EQT 0014EQT 0015EQT 0016EQT 0017EQT 0018EQT 0019EQT 0020EQT 0021EQT 0022EQT 0023EQT 0024EQT 0025EQT 0026EQT 0027EQT 0028EQT 0029EQT 0030

SPECIFIC REQUIREMENTS

AI ID: 123347 - Pine Prairie Energy Center LLC - Pine Prairie Energy Center
 Activity Number: PER20090003
 Permit Number: 0920-00059-V2
 Air - Title V Regular Permit Renewal

GRP 0004 CEEC - Compressor Engines Emissions Cap

Fuel rate <= 1935 MM ft^3/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the fuel usage exceeds the maximum listed in this specific condition for any twelve consecutive month period.

- Which Months: All Year Statistical Basis: Annual maximum
 Fuel rate recordkeeping by electronic or hard copy monthly. Keep records of the total fuel usage each month, as well as the total fuel usage for the last twelve months. Make records available for inspection by DEQ personnel.
 Fuel rate monitored by technically sound method continuously.
 Which Months: All Year Statistical Basis: Annual maximum
 Submit report: Due annually, by the 31st of March. Report the fuel usage for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.

UNF 0001 UNF1 - Entire Facility

- All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.
 All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A as delineated in Table 8 of 40 CFR 63 Subpart ZZZZ.
 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited.
 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
 Comply with the Part 70 General Conditions as set forth in LAC 33:III.535 and the Louisiana General Conditions as set forth in LAC 33:III.537.
 [LAC 33:III.535, LAC 33:III.537]
 Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency. Due within 30 days after requested by the administrative authority.
 During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations.
 Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901.
 Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.